

# **DATAMATION®**

Volume 26, Numbers 1 Through 13, 1980

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Andrew Lloyd, INTL, June, 236-N+

Terminal Search, LA, Oct., 47

#### CRIME

Computerized Hit Lists? LA, May, 61

#### CRTs

ASCII/Teletype Due Out of Telex, LA,  
Feb., 22

#### DARTMOUTH COLLEGE

Kiewit Does It Again, Ronald A. Frank,  
NIP, May, 74+

Up in Arms, Ronald A. Frank, NIP, May,  
78

#### DATA ACCESS SYSTEMS, INC.

The Top 50 Data Communications Industry Manufacturers, FA, June, 142

#### DATA ADMINISTRATION

What Do Data Administrators Really Do?

Ian B. McCririck and Robert C. Goldstein, FA, Aug., 131+

#### DATABASE MACHINE

Database Machine Flap, Ralph Emmett, NIP, Dec., 48+

#### DATA BASE MANAGEMENT

Squeezing More from DP, William L.

Bearley, FA, Jan., 121+

Aid in the 80's, Robert Epstein and Paula Hawthorn, FA, Feb., 154+

#### DATA BASE MANAGEMENT SYSTEMS

DBMS: Developing User Views, Robert H. Holland, FA, Feb., 141+

DBMS: Moving Up in Status, Edward K. Yasaki, NIP, Mar., 96+

Hear Amdahl Has DBMS, LA, May, 21

The NOMAD Approach, Daniel D.

McCracken, FA, May, 165+

Relating to Data Bases, Bill Musgrave, FA, SE, 30+

#### DATA BASES

IMS for the Eighties, LA, Jan., 22

Implementing Relational Data Bases, Robert S. Barnhardt, FA, Oct., 161+

#### DATA COMMUNICATIONS

At Long Last Datacom, LA, Mar., 65

Networks at Last? Ray W. Saunders and R.A. McLaughlin, FA, Mar., 122+

Door to a New Age, R.A. McLaughlin, FA, Mar., 125

Doll on the Evolution of SNA, Ron Frank, FA, Mar., 135+

Interface: How It's Changed in Eight Years, Tom McCusker, FA, Mar., 145+

Keeping Up with The Times, Edith Myers, NIP, May, 68+

Alive and Well: The Top 50 Data Communications Industry Manufacturers, Ronald A. Frank, FA, June, 112+

Dial-Up Goes Global, Ronald A. Frank, INTL, June, 236-Y+

Comten Pushing NCR, LA, July, 16

Stirring Datacom Stew, John L. Kirkley,

ER, Aug., 39

TV Under Control, Willie Schatz, NIP, Aug., 84

Datacom Bonanza Forecast, Andrew Lloyd, NIP, Sept., 58+

Datacom Choices Multiply, Edith Myers, NIP, Nov., 76

#### DATACOPY CORP.

In the Picture, PPL, Feb., 164

#### DATAFUSION CORP.

A Natural for CDC, LA, Oct., 20

#### DATA GENERAL

DG's Risky Move with the Nova 4, Vin McLellan, NIP, Jan., 86+

Waiting for DG, LA, Feb., 21

Dual at DEC, LA, May, 22

Risky Suit for DG, Vin McLellan, NIP, May, 85+

The Datamation 100, #10, FA, July, 108

#### DATA MANAGEMENT

Retrieving Information, V.A.J. Miller, FA, Sept., 164+

#### DATA NETWORKS

New from Network Systems, LA, Dec., 13+

#### DATAPPOINT

Son of Antelope, LA, July, 15

The Datamation 100, #26, FA, July, 124

Cedar Due Out in the Fall, LA, Sept., 45

Datapoint Debut, LA, Nov., 13

#### DATA PROCESSING

Who Has the Last Word? John L. Kirkley, ER, June, 37

#### DATA PROCESSING INDUSTRY

1980: Separating Fact from Fantasy,

Frederic G. Withington, FA, July, 76+

The Datamation 100: The Top 100 U.S.

Companies in the DP Industry, FA,

July, 87+

#### DATA PROCESSING POWER CORP.

No Flash in the Dark, Edith Myers, NIP, Mar., 102+

#### DATAPRODUCTS CORP.

The Datamation 100, #40, FA, July, 136

#### DATASAB AB

Datasaab Up for Grabs, Ralph Emmett,  
NIP, Mar., 106+

#### DATASTREAM COMMUNICATIONS, INC.

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 126

#### DATA TERMINAL SYSTEMS, INC.

The Datamation 100, #93, FA, July, 176

#### DATA TRANSMISSION CO.

Datran Settlement, NIP, Apr., 88

#### DE BENEDETTI, CARLO

Olivetti - The Gamble That Paid Off,  
Ralph Emmett, INTL, June, 236-S

#### DECISION DATA COMPUTER CORP.

The Datamation 100, #89, FA, July, 172+  
Man on the Run, Florence Lazar, PPL,  
Nov., 168

#### DECISION SUPPORT SYSTEMS

Optimizing Decision Support Systems,  
G.R. Wagner, FA, May, 209+

#### DESA (Data Entry Services of America)

DESA: A Single Source, Josh Martin,  
NIP, Jan., 92

#### DESKTOP COMPUTERS

C.A.T. Has Nine Lives, LA, May, 22  
Power to the People, Edward K. Yasaki,  
NIP, Nov., 48+

#### DIGITAL COMMUNICATIONS ASSOCIATES, INC.

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 128

#### DIGITAL COMMUNICATIONS CORP.

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 126

#### DIGITAL EQUIPMENT CORP.

Waiting for DEC, LA, Feb., 21  
DECnet Takes Aim at SNA, NIP, Feb., 66+  
While IBM Competitors' Earnings Rise,  
NIP, Mar., 114  
Rumors and Raw Random Data, LA, Apr.,  
61  
Dual at DEC, LA, May, 22  
Hard-Hitting DEC Portable, LA, July, 15  
Synergy Sparks Solution, Edith Myers,

NIP, July, 53+

The Datamation 100, #6, FA, July, 106  
Rumors and Raw Random Data, LA, Sept., 45  
DEC Sets X.25 Goals, Ronald A. Frank, NIP,  
Oct., 65+  
A Special Interest, Deborah Sojka, NIP,  
Nov., 80

#### DIGITAL SCIENTIFIC CORP.

Geared for Growth, Edith Myers, NIP,  
Nov., 54+

#### DIGITECH DATA INDUSTRIES, INC.

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 136

#### DISASTER PLANNING

Picking Up the Pieces, R.P.R. Gaade, FA,  
Jan., 112+

#### DISK CONTROLLERS

Amdahl to Diversify, LA, Sept., 13+

#### DISK DRIVES

Ferrite's Out, Thin Film's In, Edward K.  
Yasaki, NIP, Feb., 67+  
Watch for Boom in Back-Up, LA, May, 22+  
Bit Drive for Backup, Edith Myers, NIP,  
Sept., 98+

#### DISTRIBUTED ARRAY PROCESSORS

ICL Hopes DAP Will Zap U.S., Ralph  
Emmett, NIP, May, 104+

#### DISTRIBUTED DATA PROCESSING

A Checklist for System Design, Robert L.  
Patrick, FA, Jan., 147+  
Giving Away the Shop, John L. Kirkley,  
ER, Mar., 47  
French Francs Going into DDP, Andrew  
Lloyd, INTL, Mar., 226K+  
Source Data Processing, W. Harry Vickers,  
FA, Apr., 156+  
New Firm, Big Hopes, Edward K. Yasaki,  
NIP, May, 108  
Does Distributed Processing Pay Off?  
Kenneth M. Sullivan, FA, Sept., 192+  
DDP - A Functional Concept, John di  
Targiani, FM, Nov., 206+

#### DISTRIBUTED SYSTEMS ARCHITECTURE

DSA: For an Open Strategy, Fred Lamond,  
NIP, Jan., 80+

#### DIVORCE

Marriage: DP Style, Merrill Cherlin, FA, Sept., 184+

#### DOCUMENTATION INC.

The Datamation 100, #59, FA, July, 153  
Another Acquisition, Deborah Sojka, NIP, Oct., 88  
Goings-On at STC, Deborah Sojka, NIP, Dec., 80

#### DOCUMENTATION

We're Trying to Do It Right! G.E. Anderson and K.C. Shumate, FM, Aug., 175  
Tailor to Fit the Task, Richard S. Zera, FM, Sept., 270+

#### DOLL, DR. DIXON

Doll on the Evolution of SNA, Ron Frank, FA, Mar., 135+

#### DP BUDGETS

British DP Budget Reflects IBM Moves, Ralph Emmett, INTL, Mar., 226D+  
French Francs Going into DDP, Andrew Lloyd, INTL, Mar., 226K+  
MIS Budget Survey, Deborah Sojka, NIP, Dec., 80

#### DP EXECUTIVES

Exec Appointments Up, NIP, Aug., 88  
Perks, Merrill Cherlin, FA, Oct., 152+

#### DP PROFESSIONALS

Narrowing the Gap, Dave Mollen, FA, May, 195+

#### DP SALARIES

1980 Salary Survey, Louise C. Shaw, FA, Apr., 110+

#### DUPONT

Big Push in Fiber Optics, LA, May, 22

#### DUXBURY SYSTEMS, INC.

Braille WP, Deborah Sojka, NIP, Nov., 80

#### DYNATECH DATA SYSTEMS

The Top 50 Data Communications Industry Manufacturers, FA, June, 140

#### DYSAN

The Datamation 100, #91, FA, July, 174+

#### EASTERN EUROPE

A Green Light for ADR, Vin McLellan, NIP, Jan., 68+

#### EAST GERMANY

Robotron Moves Into Non-Communist Markets, Andrew Lloyd, INTL, June, 236-BB

#### ECONOMETRIC MODELING

Race Is On in Econ Modeling, LA, June, 63

#### ECONOMY

Computers and Cyclicalities, Jack Nussbaum, FA, Feb., 160+  
Recession Is a Reality, Linda F. Runyan, NIP, May, 78+

#### ECS TELECOMMUNICATIONS, INC.

Voice Is Where It's At, LA, Nov., 14+

#### EDP AUDITORS

Confusion Marks EDP Auditing, Edith Myers, NIP, Apr., 82+

#### EDP AUDITORS ASSN.

Auditors Needed, PPL, May, 244

#### EDUCATION

Training: CAD Courses for RPI Students, Bill Musgrave, FA, Mar., 195+  
Kiewit Does It Again, Ronald A. Frank, NIP, May, 74+  
Educators Won Over by Apple, LA, June, 18  
Problems with DP Schools, Josh Martin, NIP, June, 66+  
Kids Love the DP Scene, Edward K. Yasaki, NIP, June, 88+  
Guiding College Career Programs, James L. Rogers, FM, June, 265+  
Institute Born of Gratitude, Vin McLellan, NIP, Sept., 106+

#### EEC (European Economic Community)

Guarding the Flock, Malcolm Peltu, INTL, Dec., 176-38+  
Update (Brussels), INTL, Dec., 176-43

#### EFT (Electronic Funds Transfer)

Automated Banking Boom Eyed in Europe, LA, Jan., 65  
It's Stakes Time for Money Council, LA,



Feb., 65

EFT - Problems Before Promises, Andrew Lloyd, INTL, June, 236-E+  
SWIFT Squares Off Against the PTTs, Ralph Emmett, INTL, June, 236-K+  
It's In the Cards, Malcolm Peltu and Andrew Lloyd, INTL, June, 236-N+  
To Catch a Thief, Malcolm Peltu, INTL, June, 236-P

#### THE 80's

A Look at the Next Decade, Edith Myers, NIP, Apr., 68+

#### ELBIT

ANAT in the U.S. Market, LA, Sept., 13  
Nixdorf's Israeli Machine, Vin McLellan, NIP, Oct., 75+

#### ELECTRONIC DATA SYSTEMS CORP.

In Fact, in Control, PPL, Mar., 227  
The Datamation 100, #18, FA, July, 116

#### ELECTRONIC GAMES

Man Meets Machine, Bill Musgrave, FA, Dec., 34+

#### ELECTRONIC MAIL

Rumors and Raw Random Data, LA, Feb., 65  
OK ECOM, NIP, Feb., 96  
The Fed Wants Its Share Too, LA, Mar., 65  
Telemail, Ontyme-II Take Off, Ronald A. Frank, NIP, May, 67+  
Early Debut for Prestel, LA, July, 16  
SBS, AMI Ready for EM, NIP, July, 64

#### ELECTRONIC MONEY COUNCIL

It's Stakes Time for Money Council, LA, Feb., 65

#### EMERGENCY POWER ENGINEERING, INC.

No Flash in the Dark, Edith Myers, NIP, Mar., 102+

#### EM&M

The Datamation 100, #79, FA, July, 162+

#### EM&M SEMI, INC.

GTE Buys EM&M Semi, NIP, Feb., 96

#### EMPLOYEE DISPLACEMENT

The New Age of Anxiety, Philip H. Dorn,

FM, Feb., 195

Chips, Jobs and Ostriches, Linda Runyan, INTL, Mar., 226C  
Automation on the Firing Line, Hesh Weiner, INTL, Mar., 226Q+  
Coping with Change at American Telephone & Telegraph, Hesh Weiner, INTL, Mar., 226R

#### ENTERTAINMENT INDUSTRY

The Disk Revolution, Sarah Rolph, FA, Feb., 147+

#### ESTIMATING

Real-Time Estimating, Edward L. Griffin, FA, June, 188+

#### EURONET

Euronet's Days Numbered? LA, June, 63

#### EUROPE

Automated Banking Boom Eyed in Europe, LA, Jan., 65  
The PCM Boom in Europe, Fred Lamond, NIP, Jan., 67+  
Banks in Europe Demand DP, Andrew Lloyd, NIP, Mar., 108+  
EFT - Problems Before Promises, Andrew Lloyd, INTL, June, 236-E+  
SWIFT Squares Off Against the PTTs, Ralph Emmett, INTL, June, 236-K+  
It's In the Cards, Malcolm Peltu and Andrew Lloyd, INTL, June, 236-N+  
A Chip Switch in the 4300? Fred Lamond, INTL, June, 236-Y  
America's Loss, Europe's Gain, LA, Aug., 14  
Liberating Europeans, LA, Aug., 49  
Rumors and Raw Random Data, LA, Aug., 49  
ANAT in the U.S. Market, LA, Sept., 13  
Datacom Bonanza Forecast, Andrew Lloyd, NIP, Sept., 58+  
IBM Hold in Europe Slipping, Andrew Lloyd, NIP, Sept., 64+  
Current Trends in the European Computer Market, Frank Halpern, FA, Sept., 157+  
Vying for the Market, Amy D. Wohl, INTL, Sept., 238-11+  
Much Ado, Little Action, Andrew Lloyd, INTL, Sept., 248-15+  
Satisfied with Simple Solution, Malcolm Peltu, INTL, Sept., 248-16  
Zilog Has Euro Worries, LA, Oct., 20  
Update (Dusseldorf), INTL, Dec., 176-43



Update (New York), INTL, Dec., 176-43  
Europe's Product Parade, Fred Lamond,  
INTL, Dec., 176-54+

#### EXXON

Rumors and Raw Random Data, LA, Jan.,  
65  
New Tiger in Exxon's Tank? LA, May, 21  
Rumors and Raw Random Data, LA, July,  
49

#### FACOM

Fujitsu's Facom Fight, Norman Kemp,  
INTL, June, 236-DD+

#### FAIRCHILD INDUSTRIES

People, Deborah Sojka and Don Rosenthal,  
FA, SE, 67+

#### FCC

Stirring Datacom Stew, John L. Kirkley,  
ER, Aug., 39  
Where to Draw the Line, Ronald A. Frank,  
NIP, Aug., 69+  
Proposed Com Law in Limbo, Willie  
Schatz, NIP, Aug., 71+  
Deregulate, NIP, Sept., 128

#### FEDERAL RESERVE BANK

The Fed Wants Its Share Too, LA, Mar.,  
65

#### FEDERAL SCREW WORKS

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 142

#### FIBER OPTICS

Fiber Optic Net from AT&T, NIP, Mar.,  
114  
Big Push in Fiber Optics, LA, May, 22

#### FINANCIAL

A Look at Venture Capital, Ronald A.  
Frank, NIP, Sept., 47+

#### FIRST DATA RESOURCES, INC.

The Datamation 100, #80, FA, July, 166

#### FLOPPY DISKS

A Home for a Floppy Disk, Deborah  
Sojka, NIP, Oct., 88

#### FORD AEROSPACE & COMMUNICATIONS CORP.

Satellite Fever, Deborah Sojka, NIP,

Oct., 88

#### FOREIGN TAKEOVERS AND MERGERS

Rumors and Raw Random Data, LA, May, 61

#### FORMATION

Forman to the Fore, LA, Aug., 13

#### FORTTRAN

Nothing Succeeds Like Success, Raymond A.  
Pepin, FM, Oct., 238+

#### FOUR-PHASE SYSTEMS, INC.

Four Phase for Philips? LA, July, 15  
The Datamation 100, #31, FA, July, 129

#### FRANCE

French Eye U.S. Software Market, LA,  
Mar., 65  
French Francs Going into DDP, Andrew  
Lloyd, INTL, Mar., 226K+  
St. Gobain Makes Its DP Debut, Andrew  
Lloyd, INTL, Mar., 226QQ+  
Soviet Sales Scene, LA INTL, Mar., 226SS  
The French Connection to the Office  
Market, LA INTL, Mar., 226SS  
BPO, French PTT Fight It Out, LA, Aug.,  
49  
Shooting for the Stars, Linda Runyan, ER  
INTL, Sept., 248-3  
The Wit and Wisdom of Louis Pouzin,  
Andrew Lloyd, INTL, Sept., 248-34+  
France Focuses on Applications, Andrew  
Lloyd, INTL, Dec., 176-13+  
Wired Society Snags, Andrew Lloyd, INTL,  
Dec., 176-45+

#### FUJITSU

Other Countries Cooperate, Edward K.  
Yasaki, FA, Feb., 56+  
Venture Into the Unknown, LA, Mar., 22  
Fujitsu's Facom Fight, Norman Kemp, INTL,  
June, 236-DD+  
How Much Does a 370 Weigh? LA, July, 16+  
Fujitsu, TRW Plan Strategy, Edward K.  
Yasaki, NIP, July, 57  
No Go for "Stordahl," NIP, Aug., 88  
Amdahl to Diversify, LA, Sept., 13+  
The MIPS Race Is On, LA, Nov., 13

#### FUTURE

Toffler Talks of Tomorrow, Becky Barna,  
FA, Sept., 36+

GAFFNEY, DICK  
People, Deborah Sojka and Don Rosenthal,  
FA, SE, 67+

GAMBLING  
It's In the Cards, LA, Apr., 61

GANDALF DATA INC.  
The Top 50 Data Communications Industry  
Manufacturers, FA, June, 132

GARTNER GROUP, INC.  
RAVE Review, NIP, Aug., 88

GAUJARD, PIERRE  
Touché, Gaujard! Willie Schatz, PPL,  
Oct., 175

GENERAL AUTOMATION, INC.  
The Datamation 100, #46, FA, July, 142

GENERAL DATACOMM INDUSTRIES, INC.  
The Top 50 Data Communications Industry  
Manufacturers, FA, June, 132

GENERAL ELECTRIC COMPANY  
The Datamation 100, #17, FA, July, 116

GENERAL INSTRUMENT CORP.  
The Datamation 100, #42, FA, July, 139

GENISCO COMPUTERS  
Genisco Gets Graphic, LA, Sept., 45

GERBER SCIENTIFIC, INC.  
The Datamation 100, #92, FA, July, 176

GILCHRIST, BRUCE  
The Weakest Go to the Wall, Merrill  
Cherlin, FA, May, 49+

GOVERNMENT, FEDERAL  
I/O Standards Suits Scrapped, NIP, Mar.,  
114  
Federal DP Budget to Expand, NIP, Mar.,  
116  
One Day at a Time, Willie Schatz, NIP,  
June, 102+  
Too Many Cooks, Willie Schatz, NIP,  
Nov., 67+  
Good News in Fed. ADP, Willie Schatz,  
NIP, Dec., 56+  
Yankee Doodle Dilemma, Linda Runyan,  
ER INTL, Dec., 176-3

Searching for Strategies, Linda Runyan,  
INTL, Dec., 176-23+

GRAPHICS  
Computer Graphics — Seeing Is Believing,  
Sarah Rolph, FA, Aug., 43+  
A Touch of Class, LA, Aug., 49  
Genisco Gets Graphic, LA, Sept., 45  
CPA Sour on DP Graphics, Vin McLellan,  
NIP, Sept., 118+

GRAYSON, YALE  
Good Old Country Business, Nat Wadsworth,  
PPL, Mar., 230+

GREYHOUND COMPUTER  
Second Time Around, NIP, May, 112

GRID SYSTEMS CORP.  
Gene Andahl Resurfaces, NIP, Apr., 88

GRUMMAN CORPORATION  
The Datamation 100, #97, FA, July, 180

GTE  
GTE Forms Network Group, Ronald A. Frank,  
NIP, Jan., 72+  
GTE Buys EM&M Semi, NIP, Feb., 96  
GTE Group Gets Nasty Edict, LA, Sept., 14

GTE TELENET  
Telemail, Ontyme-II Take Off, Ronald A.  
Frank, NIP, May, 67+

HALCYON  
The Top 50 Data Communications Industry  
Manufacturers, FA, June, 138

HARBISON, THOMAS O.  
The Time for Synergy, PPL, Feb., 164+

HARRIS CORP.  
New Gear from Harris, LA, Apr., 21  
The Datamation 100, #28, FA, July, 126

HAZELTINE CORPORATION  
Any Takers? LA, July, 16  
The Datamation 100, #62, FA, July, 164

HEIGHTS INFORMATION TECHNOLOGY SERVICE,  
INC.  
Home Is Where the Work Is, Edith Myers,  
NIP, Feb., 77+

#### HERTZ RENT A CAR

Rumors and Raw Random Data, LA, Mar., 65

#### HEWLETT-PACKARD

Capricorn Follows Coconut, Bill Musgrave, NIP, Jan., 88+  
The Top 50 Data Communications Industry Manufacturers, FA, June, 126  
The Datamation 100, #8, FA, July, 107  
America's Loss, Europe's Gain, LA, Aug., 14  
Rumors and Raw Random Data, LA, Aug., 49  
HP Takes Office Plunge, Edward K. Yasaki, NIP, Dec., 46+

#### HISTORY

The Emotional Logician, Molly Gleiser, FA, Mar., 221+  
The First Man to Compute the Weather, Molly Gleiser, FA, June, 180+  
Analog Inventor, Molly Gleiser, FA, Oct., 141+

#### HITACHI

Nasco Finds "H" in Hitachi, LA, Sept., 13  
The MIPS Race Is On, LA, Nov., 13  
The Last of the Dinosaurs? LA, Nov., 13

#### HONEYWELL

DSA: For an Open Strategy, Fred Lamond, NIP, Jan., 80+  
While IBM Competitors' Earnings Rise, NIP, Mar., 114  
Big Push in Fiber Optics, LA, May, 22  
The Top 50 Data Communications Industry Manufacturers, FA, June, 126  
Honeywell's Italian PCM, LA, June, 15+  
The Datamation 100, #7, FA, July, 107  
New from Honeywell, LA, Aug., 13  
Robin Hood in Disguise, LA, Sept., 13  
Honeywell Speaks, Deborah Sojka, NIP, Nov., 80  
Promises from Honeywell, LA, Dec., 13  
Prople, Deborah Sojka and Don Rosenthal, FA, SE, 67+

#### HUGHES AIRCRAFT CO.

Bell & Hughes Working Together, Deborah Sojka, NIP, Nov., 80

#### HUMOR

Manuscript Found in a Tape Canister, John A. Kogut, FM, Jan., 184  
The Origins of Specious, Kirk D. Hansen, FM, Feb., 197+  
Storage Medium, Jim Gross, FM, Feb., 200  
Melon in Fantasyland, John L. Kirkley, ER, Apr., 47  
An Investigation into the Circumstances Surrounding the Demise of Felicity Schreck, Marvin Grosswirth, FA, Apr., 174+  
A Priority Delivery Form, Edward C. McManus, FM, Apr., 225+  
The Right Books, Robert Hard, FA, May, 219+  
The Computer at Stonehenge, Edward C. McManus, FM, May, 296  
Datamation Crossword, Brian FitzGibbon Burke, FM, Sept., 262  
Hardcore Hardware, John A. Kogut, FM, Sept., 266+  
Datamation Crossword, Brian FitzGibbon Burke, FM, Oct., 232  
Datamation Crossword, Brian FitzGibbon Burke, FM, Nov., 198  
Company Profile, Robert J. Hard, FM, Dec., 203+  
Datamation Crossword, Brian FitzGibbon Burke, FM, Dec., 204  
Final Report of a Corporate Subcommittee, Edward C. McManus, FM, Dec., 208

#### HUNTINGTON MEMORIAL HOSPITAL

A Hospital's Cares, Robert Spaziano, FA, June, 156+

#### IBM

Big Series/1 Order Stirs Speculation, LA, Jan., 21  
IMS for the Eighties, LA, Jan., 22  
Rumors and Raw Random Data, LA, Jan., 65  
Window Opens a Crack, Edward K. Yasaki, NIP, Jan., 66+  
The PCM Boom in Europe, Fred Lamond, NIP, Jan., 67+  
Microcode Touché, LA, Feb., 21  
IBM Readies Support for X.21, LA, Feb., 21+  
It's Stakes Time for Money Council, LA, Feb., 65  
IBM Takes Stand on Standards, NIP, Feb., 76+  
IBM Loans and Hikes, NIP, Feb., 96

Hydra Being Honed by IBM, LA, Mar., 21+  
 The Hartford Connection, LA, Mar., 22  
 IBM Prepares to Cache In, LA, Mar., 22  
 Rumors and Raw Random Data, LA, Mar., 65  
 How the 4300s Stack Up, Edward K. Yasaki, NIP, Mar., 68+  
 IBM Posts Decline in Net, NIP, Mar., 114  
 While IBM Competitors' Earnings Rise, NIP, Mar., 114  
 British DP Budget Reflects IBM Moves, Ralph Emmett, INTL, Mar., 226D+  
 IBM Buying Up City Properties, LA, Apr., 22  
 Treading on Thin Ice, Edward K. Yasaki, NIP, Apr., 63  
 User Fears Mar PCM Successes, Vin McLellan, NIP, Apr., 64+  
 Of Taxes, Telecom & Antitrust, Willie Schatz, NIP, Apr., 79+  
 IBM Borrowing Again, NIP, Apr., 88  
 IBM to Reenter Services Biz, LA, May, 21  
 1403s at Bargain Prices, Tom McCusker, NIP, May, 98+  
 Opel's a Gem for IBM, NIP, May, 112  
 IBM Has Mideast Adventure, LA, June, 63  
 The Top 50 Data Communications Industry Manufacturers, FA, June, 126  
 Fujitsu's Facom Fight, Norman Kemp, INTL, June, 236-DD+  
 If, When, and How Much, LA, July, 49  
 The Datamation 100, #1, FA, July, 104  
 IBM Ups Prices, NIP, Aug., 88  
 Robots Rumor, LA, Sept., 13  
 IBM Hold in Europe Slipping, Andrew Lloyd, NIP, Sept., 64+  
 Of Birds, IBM and Software, Edith Myers, NIP, Sept., 88+  
 Micro Makers Speculate, LA, Oct., 20  
 Update (Tokyo), INTL, Dec., 176-43  
 People, Deborah Sojka and Don Rosenthal, FA, SE, 67+

#### IBM ANTITRUST

IBM Willing to Compromise? LA, Feb., 22  
 Justice Dreams Up New Trust Tack, LA, Mar., 22  
 Antitrust Thrust Changing, Vin McLellan, NIP, Mar., 74+  
 Antitrust and IBM, W. David Gardner, FA, Apr., 52+  
 Divide...and Still Conquer? Dale

Kutnick, FA, Apr., 54+  
 Edelstein Kept on IBM Case, Vin McLellan, NIP, Apr., 72+  
 IBM/Justice Negotiations, NIP, Apr., 88  
 Justice Coaxes Gene Amdahl, LA, May, 21  
 CalComp Concedes, NIP, May, 112  
 Second Time Around, NIP, May, 112  
 One Vote: Let's Keep IBM Whole, Pete Moulton, FM, Aug., 175+  
 Order in the Court, Vin McLellan, NIP, Dec., 76+  
 Update (New York), INTL, Dec., 176-43

#### IBM MARKETING

Feudin' and Fussin' at IBM, LA, July, 15

#### IBM PRODUCTS

Watch for E Series Expansion, LA, Feb., 21  
 Ferrite's Out, Thin Film's In, Edward K. Yasaki, NIP, Feb., 67+  
 IBM Boasts New 5280, NIP, Feb., 96  
 H Series Waits Its Turn, LA, Mar., 21  
 IBM Clones an X.25 Terminal, LA INTL, Mar., 226SS  
 Preparing for the H Bomb, LA, Apr., 22  
 A Look at the Next Decade, Edith Myers, NIP, Apr., 68+  
 The Lone Ranger, LA, May, 22  
 Simulating Magnetic Bubbles, NIP, June, 106  
 IBM 4331 Model Group 2, NIP, June, 106  
 A Chip Switch in the 4300? Fred Lamond, INTL, June, 236-Y  
 Son of Antelope, LA, July, 15  
 How Much Does a 370 Weigh? LA, July, 16+  
 What's Ahead for IBM, LA, July, 49  
 System/38 Is Rolling, NIP, Aug., 88  
 Rumors and Raw Random Data, LA, Oct., 47  
 The Last of the Dinosaurs? LA, Nov., 13  
 The Back-End Approach, LA, Nov., 13+  
 That's Logic, LA, Nov., 14  
 A 3705 Successor? LA, Nov., 14  
 Does "H" Stand for Hot? LA, Nov., 43  
 A Cache to the 3880, LA, Dec., 14  
 Wangwriter vs. Displaywriter, LA, Dec., 14  
 Rumors and Raw Random Data, LA, Dec., 14  
 IBM Makes Its Move, Bill Musgrave, NIP, Dec., 43+  
 Whither H? Bill Musgrave, NIP, Dec., 44+  
 Update (New York), INTL, Dec., 176-43

#### IBM SOFTWARE

- Nixdorf Takes on IBM, Vin McLellan, NIP, Oct., 69+
- Nixdorf's Israeli Machine, Vin McLellan, NIP, Oct., 75+

#### ICL

- ICL Team Scouts U.S. Market for DAP, LA, Jan., 22
- Is ICL Up for Grabs? Fred Lamond, INTL, Mar., 226RR
- Pound Rise Hurts ICL Results, INTL, Mar., 226RR
- ICL - SPL's Latest Suitor, LA INTL, Mar., 226SS
- Rumors and Raw Random Data, LA, Apr., 61
- ICL Hopes DAP Will Zap U.S., Ralph Emmett, NIP, May, 104+
- ICL's Woes with U.S. Sibling, LA, June, 18+
- Rumors and Raw Random Data, LA, June, 63
- Current Trends in the European Computer Market, Frank Halpern, FA, Sept., 157+
- Judgment Day at ICL, LA, Oct., 20
- Update (Brussels), INTL, Dec., 176-43
- Update (London), INTL, Dec., 176-43

#### IMPERIAL COMPUTER SERVICES

- Two Years and \$10M Later, Edith Myers, NIP, Feb., 83+

#### INDIA

- Computing in the New India, Hesh Weiner, FA, June, 146+

#### INFO 80

- Info on Info 80, Bill Musgrave, NIP, Nov., 69+

#### INFOREX

- The Datamation 100, #73, FA, July, 158+

#### INFORMATICS

- Informatics Into Mini Software, NIP, June, 106
- The Datamation 100, #49, FA, July, 148

#### INFORMATION

- Data Gluttons, John L. Kirkley, FA, SE, 7

#### INFORMATION MANAGEMENT INTERNATIONAL

Tracing Actors, PPL, Apr., 186

#### INFORMATION RETRIEVAL

- Retrieving Information, V.A.J. Miller, FA, Sept., 164+

#### INFOTRON SYSTEMS CORP.

- The Top 50 Data Communications Industry Manufacturers, FA, June, 132

#### INSAC PRODUCTS

- Insac - Are There Any Survivors? Ralph Emmett, INTL, Mar., 226HH+
- American Software Dream, Malcolm Peltu, NIP, May, 94+

#### INSAC VIEWDATA INC.

- Insac Viewdata Going Strong, NIP, Mar., 116

#### INSURANCE

- Lloyd's Loss May Be Your Gain, LA, Mar., 21

#### INTEL CORP.

- How Much Does a 370 Weigh? LA, July, 16+
- Synergy Sparks Solution, Edith Myers, NIP, July, 53+
- Hands-Off Operation, LA, Oct., 19

#### INTEL MAGNETICS, INC.

- Lower-Cost Bubbles, Deborah Sojka, NIP, Nov., 80

#### INTERACTIVE DATA CORP.

- The Datamation 100, #88, FA, July, 172

#### INTERACTIVE SYSTEMS/3M

- The Top 50 Data Communications Industry Manufacturers, FA, June, 132

#### INTERFACE '80

- Interface: How It's Changed in Eight Years, Tom McCusker, FA, Mar., 145+
- Recession Is a Reality, Linda F. Runyan, NIP, May, 78+
- A Master of Under-Statement, Linda F. Runyan, NIP, May, 84+

#### INTERNATIONAL

- Datsaasab Up for Grabs, Ralph Emmett, NIP, Mar., 106+
- Banks in Europe Demand DP, Andrew Lloyd,



NIP, Mar., 108+  
 Travicom Tussle Begins, Fred Lamond, NIP, Mar., 110+  
 CDC Pact with USSR in Doubt, Peter Krass, NIP, Mar., 112  
 Cold War Freezes DP Exports, NIP, Mar., 114  
 Iranian Crisis Also Hits DP Work, NIP, Mar., 114  
 Chips, Jobs and Ostriches, Linda Runyan, INTL, Mar., 226C  
 Automation on the Firing Line, Hesh Weiner, INTL, Mar., 226Q+  
 START Net Sparks Airline Industry Squabble, Fred Lamond, INTL, Mar., 226DD  
 IBM Clones an X.25 Terminal, LA INTL, Mar., 226SS  
 Four Phase for Philips? LA, July, 15  
 Forging a New Alliance, Vin McLellan, NIP, June, 64+  
 DP: An Easy Target, Andrew Lloyd, NIP, June, 99+  
 Computing in the New India, Hesh Weiner, FA, June, 146+  
 To Catch a Thief, Malcolm Peltu, INTL, June, 236-P  
 Olivetti - The Gamble That Paid Off, Ralph Emmett, INTL, June, 236-S  
 Dial-Up Data Goes Global, Ronald A. Frank, INTL, June, 236-Y+  
 Robotron Moves Into Non-Communist Markets, Andrew Lloyd, INTL, June, 236-BB  
 User Rebellion Worked, Ralph Emmett, NIP, Aug., 54+  
 It's a Small World, Becky Barna and Edward K. Yasaki, NIP, Sept., 120+  
 Going Global, FA, Sept., 130+  
 What to Expect in the Third World, Russell Pipe, FA, Sept., 132+  
 Loosening the Telecom Link, Oswald H. Ganley, FA, Sept., 148+  
 Current Trends in the European Computer Market, Frank Halpern, FA, Sept., 157+  
 The DP Manager Steps Into the World of the Office, David L. Hebditch, INTL, Sept., 248-4+  
 Stretching the System, Philip H. Dorn, INTL, Sept., 248-6  
 Words to the Wise, INTL, Sept., 248-6  
 The Naked DP Manager, Malcolm Peltu, INTL, Sept., 248-8

Vying for the Market, Amy D. Wohl, INTL, Sept., 248-11+  
 Much Ado, Little Action, Andrew Lloyd, INTL, Sept., 248-15+  
 Satisfied with Simple Solution, Malcolm Peltu, INTL, Sept., 248-16  
 Japan Jumps In, Edward K. Yasaki and Linda Runyan, INTL, Sept., 248-18  
 Tying It All Together, Beverley Bleackley, INTL, Sept., 248-20+  
 Factoring in the Human Factor, Malcolm Peltu, INTL, Sept., 248-29+  
 The Viewdata Vernacular, Fred Lamond, INTL, Sept., 248-32+  
 The Wit and Wisdom of Louis Pouzin, Andrew Lloyd, INTL, Sept., 248-34+  
 Rough Sailing at Cii-HB, Andrew Lloyd, INTL, Sept., 248-37+  
 Telecom Unhooks the U.K., Malcolm Peltu, INTL, Sept., 248-38+  
 The PTT's Rip-Off Rates, Andrew Lloyd, INTL, Sept., 248-42+  
 Britain Before the Fall? Malcolm Peltu, INTL, Sept., 248-46+  
 Free Trade Fracas, Andrew Lloyd, NIP, Dec., 66+  
 Yankee Doodle Dilemma, Linda Runyan, ER INTL, Dec., 176-3  
 Measuring the Muscle Behind the Might, Linda Runyan, INTL, Dec., 176-4+  
 Germany's Hefty Cash Commitment, Andrew Lloyd, INTL, Dec., 176-6+  
 Britain's Slow Muddled March, Malcolm Peltu, INTL, Dec., 176-8+  
 France Focuses on Applications, Andrew Lloyd, INTL, Dec., 176-13+  
 Shooting for Supremacy, Linda Runyan and Edward Yasaki, INTL, Dec., 176-29+  
 Guarding the Flock, Malcolm Peltu, INTL, Dec., 176-38+  
 Update (Paris), INTL, Dec., 176-43  
 Wired Society Snags, Andrew Lloyd, INTL, Dec., 176-45+  
 Computer Company Cutbacks, Malcolm Peltu, INTL, Dec., 176-53+  
 Europe's Product Parade, Fred Lamond, INTL, Dec., 176-54+  
 Inching Into America, Ralph Emmett, FA, SE, 51+

INTERNATIONAL COMMUNICATIONS ASSOCIATION  
 ICA Shifts Gears, Ronald A. Frank, NIP, July, 62



#### INTERNATIONAL COMPUTING CO.

Cable Bus Net Due Out of ICC, LA, Dec.,  
14

#### INTERNATIONAL DATA SCIENCES, INC.

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 138

#### INTERNATIONAL MARKETING

Brass Knuckles for the Brass Ring,  
Linda Runyan, ER INTL, June, 236-C  
Germany Stretches DP Market, Andrew  
Lloyd and Linda Runyan, INTL, June,  
236-Z+  
Sting Like a Bee, John L. Kirkley, ER,  
Sept., 33  
Searching for Strategies, Linda Runyan,  
INTL, Dec., 176-23+

#### INTERTEL, INC.

The Top 50 Data Communications Industry  
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#### IPL SYSTEMS

Microcode Touché, LA, Feb., 21  
A Well-Protected PCM, Vin McLellan,  
NIP, Mar., 93+  
Forging a New Alliance, Vin McLellan,  
NIP, June, 64+  
PCM Plot Thickens, LA, Aug., 14  
Stay Tuned to IPL, LA, Oct., 19

#### IRAN

Iranian Crisis Also Hits DP Work, NIP,  
Mar., 114

#### IRWIN INTERNATIONAL

People, Deborah Sojka and Don Rosenthal,  
FA, SE, 67+

#### IRWIN, SAMUEL

People, Deborah Sojka and Don Rosenthal,  
FA, SE, 67+

#### ISRAEL

Nixdorf's Israeli Machine, Vin McLellan,  
NIP, Oct., 75+

#### ITEL CORP.

Kvamme's Challenge, NIP, Jan., 67  
The Datamation 100, #27, FA, July, 126

#### ITT

Big Push in Fiber Optics, LA, May, 22

The Datamation 100, #24, FA, July, 122  
America's Loss, Europe's Gain, LA, Aug.,  
14

#### JAPAN

Packages on the Upswing, Edward K.  
Yasaki, FA, Feb., 52  
MITI Adds Muscle to the Cause, Edward K.  
Yasaki, NIP, Feb., 52+  
Unbundle: The "In" Thing, Edward K.  
Yasaki, FA, Feb., 54  
From Tokyo to Taiwan, Edward K. Yasaki,  
FA, Feb., 56  
Other Countries Cooperate, Edward K.  
Yasaki, FA, Feb., 56+  
Japan SIA Analyzes Revenues, Edward K.  
Yasaki, FA, Feb., 58  
Export Market Also Eyed, Edward K. Yasaki,  
FA, Feb., 58  
Fujitsu's Facom Fight, Norman Kemp, INTL,  
June, 236-DD+  
IBM Hold in Europe Slipping, Andrew Lloyd,  
NIP, Sept., 64+  
Japan's Amicable Alliance, Norman Kemp,  
NIP, Sept., 74+  
Vying for the Market, Amy D. Wohl, INTL,  
Sept., 238-11+  
Japan Jumps In, Edward K. Yasaki and  
Linda Runyan, INTL, Sept., 248-18  
Japan Rediscovered DBMS, Katsuhiro Morita  
and Takashi Ishizuka (Computopia: March  
1980, Computer Age Co., Ltd., Japan),  
FA, Dec., 155+  
Shooting for Supremacy, Linda Runyan and  
Edward Yasaki, INTL, Dec., 176-29+  
Update (Tokyo), INTL, Dec., 176-43  
Update (Tokyo), INTL, Dec., 176-43

#### JERRITTS, STEPHEN

People, Deborah Sojka and Don Rosenthal,  
FA, SE, 67+

#### JOINT VENTURES

Venture Into the Unknown, LA, Mar., 22  
Joint Disk Venture, NIP, May, 112  
Synergy Sparks Solution, Edith Myers,  
NIP, July, 53+

#### KAUFMAN, MICHAEL D.

People, Deborah Sojka and Don Rosenthal,  
FA, SE, 67+

#### KEANE, STEPHEN J.

Sand in His Shoes, PPL, June, 228

#### KIERULFF ELECTRONICS

An Entree to the DP Business, Tom McCusker, NIP, Mar., 100+

#### KINN, JACK

AFIPS Loses Its Head, LA, Apr., 61

#### KLEIN, DENNIS M.

Travel Tran, PPL, Sept., 224+

#### KOREA

Other Countries Cooperate, Edward K. Yasaki, FA, Feb., 56+

#### KVAMME, FLOYD

Kvamme's Challenge, NIP, Jan., 67

#### LANDAU, HERBERT M.

No Bench for Him, PPL, Mar., 230

#### LANGUAGES

Speaking of Chip Shortages, Edith Myers, NIP, Jan., 81+

Squeezing More from DP, William L. Bearley, FA, Jan., 121+

The New Tower of Babel, John R. Ehrman, FA, Mar., 156+

Pascal Confusion Explained, Edith Myers, NIP, May, 98

Presenting Rosetta Smalltalk, Scott K. Warren and Dennis Abbe, FA, May, 144+

The NOMAD Approach, Daniel D. McCracken, FA, May, 165+

Appraising X3J4 COBOL, W.F. Lipman, FM, Sept., 261+

Reconfiguring the COBOL Compiler, T.M. Triance, FM, Oct., 234+

Nothing Succeeds Like Success, Raymond A. Pepin, FM, Oct., 238+

A Special Interest, Deborah Sojka, NIP, Nov., 80

#### LAWRENCE LIVERMORE NATIONAL LABORATORY

Livermore Loves Cray, NIP, Aug., 88

#### LEAR SIEGLER, INC.

The Datamation 100, #70, FA, July, 158

#### LEASING

Fear and Loathing in Leasing, Vin McLellan, NIP, June, 66+

If, When, and How Much, LA, July, 49

#### LEGISLATION

Crime Bill Revised, Vin McLellan, NIP, Feb., 86+

Key Excerpts from S.240, NIP, Feb., 93  
Litigators vs. Legislators, LA, Mar., 22+

Proposed Com Law in Limbo, Willie Schatz, NIP, Aug., 71+

R&D Bills on Front Burner, Willie Schatz, NIP, Sept., 114+

Com Bill Stands Still, NIP, Sept., 128

#### LEXICON CORP.

New from Lexicon, LA, June, 18

#### LEXITRON CORP.

People, Deborah Sojka and Don Rosenthal, FA, SE, 67+

#### THE LIEBERT CORP.

No Flash in the Dark, Edith Myers, NIP, Mar., 102+

#### LITERATURE

The Right Books, Robert Hard, FA, May, 219+

#### LITIGATION

Jackal of All Trades, LA, Jan., 65

Litigators vs. Legislators, LA, Mar., 22+

Antitrust Thrust Changing, Vin McLellan, NIP, Mar., 74+

Feds Fire Third Round, Willie Schatz, NIP, Mar., 82+

For the Courts to Decide, Becky Barna, NIP, Mar., 88

Bell Bill Cries Resurface, Becky Barna, NIP, Mar., 88+

Risky Suit for DG, Vin McLellan, NIP, May, 85+

ADAPSO, Citibank At It Again, NIP, May, 112

A Big Blow to AT&T, Ronald A. Frank, NIP, Aug., 54+

Sharpening Your Clause, Robert A. Spanner and William F. Mack, FA, Aug., 114+

Order in the Court, Vin McLellan, NIP, Dec., 76+

#### LITTON

Litton vs. AT&T, NIP, Apr., 88

#### LIVERMORE DATA SYSTEMS, INC.

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 132

#### LLOYD'S OF LONDON

Lloyd's Loss May Be Your Gain, LA, Mar.,  
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#### MAESTRO SYSTEMS INC.

Toss Out Pen and Pencil, Edward K.  
Yasaki, NIP, May, 102

#### MAGNAVOX

Two Pi Tightens the Belt, LA, May, 61

#### MAGNETIC BUBBLE CHIPS

Simulating Magnetic Bubbles, NIP, June,  
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#### MAGNUSON SYSTEMS CORP.

Magnuson Inks Credit, NIP, Feb., 96  
PCMs Ready Their Own OS, LA, Apr., 21  
Magnuson to Go Public, Edward K.  
Yasaki, NIP, July, 52+  
Rumors and Raw Random Data, LA, Oct.,  
47

#### MAINFRAMERS

New Name, New Game, Vin McLellan, NIP,  
Sept., 48+  
Amdahl Plus Amdahl, Hesh Weiner, NIP,  
Oct., 67+  
The B 5900 Attacks, Deborah Sojka, NIP,  
Oct., 88  
Delays, Delays & Delays, Stephen T.  
McClellan, FA, SE, 50+

#### MAINFRAMES

How the 4300s Stack Up, Edward K.  
Yasaki, NIP, Mar., 68+  
ICL Hopes DAP Will Zap U.S., Ralph  
Emmett, NIP, May, 104+  
Mainframe Industry Survey, Willie  
Schatz, FA, June, 45+  
A Chip Switch in the 4300? Fred Lamond,  
INTL, June, 236-Y  
Siemens Maps Out U.S. Strategy, LA,  
Aug., 14  
Power in a Pinch, Edward K. Yasaki, NIP,  
Sept., 96+  
The MIPS Race Is On, LA, Nov., 13  
The Last of the Dinosaurs? LA, Nov., 13  
IBM Makes Its Move, Bill Musgrave, NIP,  
Dec., 43+

Whither H? Bill Musgrave, NIP, Dec., 44+

#### MANAGEMENT

Group Processes in Programming, Ben  
Schneiderman, FA, Jan., 138+  
Measure by DP Measure, Tom McCusker, NIP,  
Feb., 79+  
Software Manpower Costs: A Model, Bob  
Esterling, FA, Mar., 164+  
Independent Auditing as Project Control,  
Michael G. Walker and Randolph Bracey,  
FA, Mar., 201+  
Women in Management: A Conversation, FA,  
Apr., 131+  
Middle Management's Inevitable Decline,  
Dick H. Brandon, FM, Apr., 225  
Taking Management's Measure, Jack Ewers,  
FA, May, 184+

#### MANAGEMENT ASSISTANCE INC.

The Time for Synergy, PPL, Feb., 164+  
The Datamation 100, #22, FA, July, 120

#### MANAGEMENT SCIENCE AMERICA, INC.

The Datamation 100, #98, FA, July, 180+

#### MANUFACTURING DATA SYSTEMS, INC.

The Datamation 100, #85, FA, July, 171

#### MANUFACTURING

Techniques: Computer-Integrated Manufac-  
turing, David Chris Allen, FA, Mar.,  
187+

#### MARKETING

An Entree to the DP Business, Tom  
McCusker, NIP, Mar., 100+  
1403s at Bargain Prices, Tom McCusker,  
NIP, May, 98+

#### MARKETS

Buying Into \$100 Billion, Edward K.  
Yasaki, FA, SE, 10+  
Surviving the Shakeout, Edith Myers, FA,  
SE, 13+  
WP Gear Gets Savvy, Vin McLellan, FA,  
SE, 16+  
Software & Services, Edith Myers, FA,  
SE, 18+  
Small Systems Thrive, Edith Myers, FA,  
SE, 19+  
Just 'Round the Corner, Edith Myers, FA,  
SE, 20+

## MARRIAGE

Marriage: DP Style, Merrill Cherlin,  
FA, Sept., 184+

## MARTIN MARIETTA CORP.

The Datamation 100, #67, FA, July, 156

## MARYLAND

West Coming East? NIP, June, 106

## MAUCHLY, DR. JOHN W.

In Memory of Mauchly, NIP, Feb., 96

He Was an Idea Spark, Becky Barna,

FA, Mar., 55

Mauchly Was His Own Man, Anne Dewees,

FA, Mar., 56+

Interview with John Mauchly, Anne

Dewees, FA, Mar., 58+

A Man Not Bound by Tradition, FA, Mar.,

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## MCDONNELL DOUGLAS CORP.

The Datamation 100, #25, FA, July, 124

## McGILL, ARCH

McGill on Hold? LA, Dec., 13

## MCI

Rumors and Raw Random Data, LA, Aug.,

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A Big Blow to AT&T, Ronald A. Frank,

NIP, Aug., 54+

## MEDICAL DATA PROCESSING

Mayo's Medical Mini-Micro, FA, Mar.,

207

A Hospital's Cares, Robert Spaziano,

FA, June, 156+

## MEMOREX

Memorex in Throes of Change, Ronald A

Frank, NIP, Mar., 66+

Communications Group Is the One to

Watch, Ronald A. Frank, NIP, Mar., 67

New Tiger in Exxon's Tank? LA, May, 21

Joint Disk Venture, NIP, May, 112

The Top 50 Data Communications Industry

Manufacturers, FA, June, 136+

The Datamation 100, #9, FA, July, 108

People, Deborah Sojka and Don Rosenthal,

FA, SE, 67+

## MEMORIES

IBM Prepares to Cache In, LA, Mar., 22

## MERGERS

Pertec Merger Complete, Edith Myers,

NIP, Mar., 70+

## MERGER TALKS

Stordahl in the Making? Edward K. Yasaki,

NIP, May, 62+

Goings-On at STC, Deborah Sojka, NIP,

Dec., 80

## MERRILL LYNCH

Race Is On in Econ Modeling, LA, June,

63

## MEYERSON, MORT

In Fact, in Control, PPL, Mar., 227

## MICOM SYSTEMS, INC.

The Top 50 Data Communications Industry

Manufacturers, FA, June, 132+

## MICROCOMPUTERS

Speaking of Chip Shortages, Edith Myers,

NIP, Jan., 81+

Diary of a Multi-Vendor Purchaser, Ronald

S. Lemos, FA, May, 177+

Being Sharper than Sharp, LA, June, 17

Micro Makers Speculate, LA, Oct., 20

Apollo Is Launched, Vin McLellan, NIP,

Nov., 44+

## MICRO-PLATO

CDC Emerging Strategy, Vin McLellan, NIP,

Dec., 53+

## MICROPROCESSORS

Presenting Rosetta Smalltalk, Scott K.

Warren and Dennis Abbe, FA, May, 144+

How Much Does a 370 Weigh? LA, July, 16+

Genisco Gets Graphic, LA, Sept., 45

CDC Emerging Strategy, Vin McLellan, NIP,

Dec., 53+

## MIDDLE EAST

IBM Has Mideast Adventure, LA, June, 63

## MILLER, ARMIN

In the Picture, PPL, Feb., 164

## MINICOMPUTERS

DG's Risky Move with the Nova 4, Vin

McLellan, NIP, Jan., 86+

Univac's Big Push in Minis, Edith Myers,

NIP, Mar., 72+

Risky Suit for DG, Vin McLellan, NIP, May, 85+  
Forman to the Fore, LA, Aug., 13  
Fire-Fighting Mini, Donald N.H. Chi and Henry E. Perlee, FA, Sept., 217+  
Annual Minicomputer Survey, FA, Nov., 144+

#### MODEMS

It's Still an Analog World, Ralph G. Berglund, FA, Jan., 52+  
Low Speed Modems Get New Vitality, LA, Feb., 65  
New from Lexicon, LA, June, 18  
Ready to Compete with Bell, Ronald A. Frank, NIP, June, 81+

#### MODULAR COMPUTER SYSTEMS, INC.

Telefunken Acquires, NIP, Feb., 96  
The Datamation 100, #63, FA, July, 154

#### MOHAWK DATA SCIENCES

Chief of the Mohawk, Merrill Cherlin, PPL, Aug., 144  
The Datamation 100, #29, FA, July, 128

#### MOTION PICTURES

Hollywood Time in Anaheim, FA, May, 125  
20,000 Movies, PPL, May, 244+

#### MOTOROLA

The Top 50 Data Communications Industry Manufacturers, FA, June, 135  
How Much Does a 370 Weigh? LA, July, 16+  
Satellite Fever, Deborah Sojka, NIP, Oct., 88

#### MRP (Manufacturing Resource Planning)

MRP to Save the Day, Edith Myers, NIP, Aug., 73+  
Tools for Profit, Oliver W. Wight, FA, Oct., 92+  
Surveying the Software, Richard Bourke, FA, Oct., 101+  
Putting Theory to Work in the Shop, FA, Oct., 125+

#### MSI DATA CORPORATION

The Datamation 100, #84, FA, July, 171

#### NASA

NASA Pursues Supercomputer, LA, Aug., 13  
Satellite Fever, Deborah Sojka, NIP, Oct., 88

#### NASHUA CORP.

The Datamation 100, #90, FA, July, 174

#### NATIONAL ADVANCED SYSTEMS CO.

Nasco Finds "H" in Hitachi, LA, Sept., 13

#### NATIONAL COMPUTER CONFERENCE

Coping with Crowds, Tom McCusker, FA, May, 122+  
Hollywood Time in Anaheim, FA, May, 125  
SHARE to Celebrate 25th Year During NCC, Mort Bernstein, FA, May, 126  
Let's Go on with the Show, FA, July, 37  
The View from the Top, FA, July, 38  
Product Paradise, FA, July, 38+  
Heard on the Floor, FA, July, 40  
Meeting of the Minds, NIP, July, 64

#### NATIONAL CSS

The Datamation 100, #50, FA, July, 148

#### NATIONAL DATA CORP.

The Datamation 100, #76, FA, July, 160

#### NATIONAL SEMICONDUCTOR

Kvamme's Challenge, NIP, Jan., 67  
National Eyes New Options, Edward K. Yasaki, NIP, Apr., 62+

#### NCR

While IBM Competitors' Earnings Rise, NIP, Mar., 114  
The Top 50 Data Communications Industry Manufacturers, FA, June, 128  
Comten Pushing NCR, LA, July, 16  
The Datamation 100, #3, FA, July, 105  
Rumors and Raw Random Data, LA, Sept., 45  
NCR to Make More Chips, NIP, Sept., 128  
Current Trends in the European Computer Market, Frank Halpern, FA, Sept., 157+  
NCR Courts ADDS, Deborah Sojka, NIP, Oct., 88  
Comten Before & After, Ronald A. Frank, NIP, Dec., 71+

#### NELIAC

The Project That Failed, Robert L. Glass, FM, Mar., 271+

#### NETWORK ANALYZERS

Finding the Ideal Product, Edith Myers, NIP, June, 83+



## NETWORKS

- GTE Forms Network Group, Ronald A. Frank, NIP, Jan., 72+
- DSA: For an Open Strategy, Fred Lamond, NIP, Jan., 80+
- IBM Readies Support for X.21, LA, Feb., 21+
- DECnet Takes Aim at SNA, NIP, Feb., 66+
- IBM Takes Stand on Standards, NIP, Feb., 76+
- Networks at Last? Ray W. Saunders and R.A. McLaughlin, FA, Mar., 122+
- Mayo's Medical Mini-Micro, FA, Mar., 207
- Bell Dreams of Local Data Nets, LA, June, 17
- B-of-A Set to Build IMS Net, LA, June, 17
- New Infonet Service Coming, LA, June, 17+
- Euronet's Days Numbered? LA, June, 63
- Synergy Sparks Solution, Edith Myers, NIP, July, 53+
- New from Honeywell, LA, Aug., 13
- Big Boost for CA's SyFa, LA, Aug., 13
- Xten Counters Negativism, LA, Aug., 14
- Liberating Europeans, LA, Aug., 49
- Pinning Down Xten, LA, Nov., 14
- Spreading Nets, Charles E. Price, FA, Nov., 120+
- Univac Supports X.21, X.25, Deborah Sojka, NIP, Dec., 80
- Cable Bus Net Due Out of ICC, LA, Dec., 14
- Telecom Changes Coming, Ronald A. Frank, FA, SE, 36+

## NETWORK SYSTEMS CORP.

- Rumors and Raw Random Data, LA, Nov., 43
- New from Network Systems, LA, Dec., 13+

## NEWSPAPERS

- Keeping Up with The Times, Edith Myers, NIP, May, 68+

## NIPPON ELECTRIC

- The MIPS Race Is On, LA, Nov., 13
- Update (Tokyo), INTL, Dec., 176-43

## NIPPON TELEGRAPH & TELEPHONE PUBLIC CORP.

- Update (Tokyo), INTL, Dec., 176-43

## NIXDORF

- Nixdorf Succumbs to COBOL, LA, Jan., 21
- Another New PCM? LA, May, 21
- The Datamation 100, #55, FA, July, 152
- ANAT in the U.S. Market, LA, Sept., 13
- Nixdorf Takes on IBM, Vin McLellan, NIP, Oct., 69+
- Nixdorf's Israeli Machine, Vin McLellan, NIP, Oct., 75+
- Update (London), INTL, Dec., 176-43

## NOMAD

- The NOMAD Approach, Daniel D. McCracken, FA, May, 165+

## NORTHERN TELECOM

- New Tiger in Exxon's Tank? LA, May, 21
- The Top 50 Data Communications Industry Manufacturers, FA, June, 138
- The Datamation 100, #20, FA, July, 119
- NTSC Getting in Shape, Ronald A. Frank, NIP, Nov., 60+

## NOVATION, INC.

- The Top 50 Data Communications Industry Manufacturers, FA, June, 135

## O'BRIEN, RALPH

- Chief of the Mohawk, Merrill Cherlin, PPL, Aug., 144

## OFFICE AUTOMATION

- Still a Lot of Paper, LA, Jan., 65
- The Office Merry-Go-Round, John L. Kirkley, ER, Feb., 43
- Spiffy Office at AMOCO, Vin McLellan, NIP, Feb., 68+
- A Review of Office Automation, Amy Wohl, FA, Feb., 116+
- Examining the Office of the Future, Tom McCusker, FA, Feb., 120+
- Office Is Where It's Happening, Tom McCusker, NIP, Apr., 65+
- Replacing Pad and Pencil, Amy D. Wohl, FA, June, 169+
- Weaving WP and DP Together, Edith Myers, NIP, Aug., 61+
- Will History Repeat Itself? Gerald S. Maskovsky, FM, Aug., 176+
- The DP Manager Steps Into the World of the Office, David L. Hebditch, INTL, Sept., 248-4+
- Stretching the System, Philip H. Dorn, INTL, Sept., 248-6



Words to the Wise, INTL, Sept., 248-6  
 The Naked DP Manager, Malcolm Peltu,  
 INTL, Sept., 248-8  
 Vying for the Market, Amy D. Wohl,  
 INTL, Sept., 248-11+  
 Much Ado, Little Action, Andrew Lloyd,  
 INTL, Sept., 248-15+  
 Japan Jumps In, Edward K. Yasaki and  
 Linda Runyan, INTL, Sept., 248-18  
 Tying It All Together, Beverley  
 Bleackley, INTL, Sept., 248-20+  
 Factoring In the Human Factor, Malcolm  
 Peltu, INTL, Sept., 248-29+  
 The Viewdata Vernacular, Fred Lamond,  
 INTL, Sept., 248-32+  
 Four Roads to Office Automation, Roger  
 W. Ketron, FA, Nov., 138+  
 HP Takes Office Plunge, Edward K.  
 Yasaki, NIP, Dec., 46+  
 Message System Flaws, Ronald A. Frank,  
 NIP, Dec., 78+  
 Olivetti to Market Syntrex, Deborah  
 Sojka, NIP, Dec., 80  
 Surviving the Shakeout, Edith Myers,  
 FA, SE, 13+  
 Just 'Round the Corner, Edith Myers,  
 FA, SE, 20+

#### OFFICE PRODUCTS

The French Connection to the Office  
 Market, LA INTL, Mar., 226SS

#### OLIVETTI

Soviet Sales Scene, LA INTL, Mar.,  
 226SS  
 Joint Disk Venture, NIP, May, 112  
 Forging a New Alliance, Vin McLellan,  
 NIP, June, 64+  
 Olivetti - The Gamble That Paid Off,  
 Ralph Emmett, INTL, June, 236-S  
 Arrivederci Bellisario, NIP, July, 64  
 The Datamation 100, #96, FA, July, 180  
 Olivetti to Market Syntrex, Deborah  
 Sojka, NIP, Dec., 80  
 Update (New York), INTL, Dec., 176-43  
 People, Deborah Sojka and Don Rosenthal,  
 FA, SE, 67+

#### OLSEN, JAMES E.

People, Deborah Sojka and Don Rosenthal,  
 FA, SE, 67+

#### OMNITEC

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Manufacturers, FA, June, 135

#### OPEL, JOHN R.

Opel's a Gem for IBM, NIP, May, 112  
 People, Deborah Sojka and Don Rosenthal,  
 FA, SE, 67+

#### OPERATING SYSTEMS

Univac's UNIX Is Looking Good, LA, Mar.,  
 21  
 Hydra Being Honed by IBM, LA, Mar., 21+  
 PCMs Ready Their Own OS, LA, Apr., 21  
 Fujitsu, TRW Plan Strategy, Edward K.  
 Yasaki, NIP, July, 57

#### OPTIMUM SYSTEMS INC.

The Datamation 100, #95, FA, July, 178

#### PACIFIC BASIN COUNTRIES

Pacific Pushes Telecom, Ronald A. Frank,  
 INTL, Mar., 226SS+

#### PACIFIC TELECOMMUNICATIONS COUNCIL

Top Posts Filled on Pacific Telecommuni-  
 cations Council, Ronald A. Frank, INTL,  
 Mar., 226TT

#### PACKET SWITCHING NETWORKS

Update (Dusseldorf), INTL, Dec., 176-43

#### PA INTERNATIONAL

PA Surveys Viewdata, Deborah Sojka, NIP,  
 Dec., 80

#### PARADYNE CORP.

The Top 50 Data Communications Industry  
 Manufacturers, FA, June, 135

#### PASCAL

Pascal Confusion Explained, Edith Myers,  
 NIP, May, 98

#### PCMs

Window Opens a Crack, Edward K. Yasaki,  
 NIP, Jan., 66+  
 The PCM Boom in Europe, Fred Lamond,  
 NIP, Jan., 67+  
 A Well-Protected PCM, Vin McLellan, NIP,  
 Mar., 93+  
 PCMs Ready Their Own OS, LA, Apr., 21  
 National Eyes New Options, Edward K.  
 Yasaki, NIP, Apr., 63  
 User Fears Mar PCM Successes, Vin  
 McLellan, NIP, Apr., 64+

Another New PCN? LA, May, 21  
Honeywell's Italian PCM, LA, July, 15+  
Magnuson to Go Public, Edward K.

Yasaki, NIP, July, 52+  
PCM Plot Thickens, LA, Aug., 14  
Only the Strong Survive, Edward K.  
Yasaki, NIP, Aug., 51+  
Déjà Vu, LA, Sept., 14+  
Nixdorf Takes on IBM, Vin McLellan,  
NIP, Oct., 69+

#### PENRIL CORP.

Low Speed Modems Get New Vitality, LA,  
Feb., 65  
The Top 50 Data Communications Industry  
Manufacturers, FA, June, 135

#### PERIPHERALS

Building a Name, Edith Myers, NIP, Apr.,  
87  
Only the Strong Survive, Edward K.  
Yasaki, NIP, Aug., 51+  
Big Drive for Backup, Edith Myers, NIP,  
Sept., 98+

#### PERIPHONICS CORP.

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 128

#### PERKIN-ELMER

The Datamation 100, #33, FA, July, 130

#### PERSONAL COMPUTERS

Capricorn Follows Coconut, Bill  
Musgrave, NIP, Jan., 88+  
A Modern Aladdin's Lamp, Dorothy A.  
Walsh, FM, Mar., 272+  
Presenting Rosetta Smalltalk, Scott K.  
Warren and Dennis Abbe, FA, May, 144+  
Kids Love the DP Scene, Edward K.  
Yasaki, NIP, June, 88+  
Home Time-Sharing, NIP, Sept., 128  
Tandy Has New Focus, Ralph Emmett, NIP,  
Dec., 60+

#### PERSONNEL

Dwindling Supply of People, Edith Myers,  
NIP, Jan., 82+  
Grow Your Own, Robert M. Alloway, FA,  
Apr., 122+  
Solving the Turnover Problem, Charles D.  
LaBelle, Kimball Shaw, and Leslie J.  
Hellenack, FA, Apr., 144+  
Exec Appointments Up, NIP, Aug., 88

Robin Hood in Disguise, IA, Sept., 13  
Faulty Job Trend, John Callahan, FM,  
Sept., 264+

#### PERTEC

Pertec Merger Complete, Edith Myers,  
NIP, Mar., 70+  
The Datamation 100, #34, FA, July, 130

#### PHILIPS N.V.

Four Phase for Philips? LA, July, 15

#### PHILOSOPHY

The Weakest Go to the Wall, Merrill  
Cherlin, FA, May, 49+  
The Computer at Stonehenge, Edward C.  
McManus, FM, May, 296

#### PHOENIX COMPUTER CORP.

Of Birds, IBM and Software, Edith Myers,  
NIP, Sept., 88+

#### PLANNING RESEARCH CORP.

The Datamation 100, #48, FA, July, 144

#### PODUSKA, BILL

Prime's Loss Is Poduska's Gain, LA, Apr.,  
21

#### POETRY

Specialization, Frances B. DeNagy, FM,  
Nov., 200  
Final Report of a Corporate Subcommittee,  
Edward C. McManus, FM, Dec., 208

#### POLICIES

Brass Knuckles for the Brass Ring, Linda  
Runyan, ER INTL, June, 236-C  
Measuring the Muscle Behind the Might,  
Linda Runyan, INTL, Dec., 176-4+  
Germany's Hefty Cash Commitment, Andrew  
Lloyd, INTL, Dec., 176-6+  
Britain's Slow Muddled March, Malcolm  
Peltu, INTL, Dec., 176-8+  
France Focuses on Applications, Andrew  
Lloyd, INTL, Dec., 176-13+  
Searching for Strategies, Linda Runyan,  
INTL, Dec., 176-23+  
Shooting for Supremacy, Linda Runyan and  
Edward Yasaki, INTL, Dec., 176-29+  
The U.K. Shuffles Its Ranks, Malcolm  
Peltu, INTL, Dec., 176-46+

**POS (Point-of-Sale)**

Slow Store in the Sky, LA, July, 49  
Plan Now, Buy Later, Edith Myers, NIP,  
Aug., 64+

**POST, EMIL**

The Emotional Logician, Molly Gleiser,  
FA, Mar., 221+

**POUZIN, LOUIS**

The Wit and Wisdom of Louis Pouzin,  
Andrew Lloyd, INTL, Sept., 248-34+

**POWER**

No Flash in the Dark, Edith Myers, NIP,  
Mar., 102+

**PRENTICE CORP.**

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 135

**PRESTEL**

Early Debut for Prestel, LA, July, 16

**PRICE, ROBERT M.**

People, Deborah Sojka and Don Rosenthal,  
FA, SE, 67+

**PRICING**

IBM Loans and Hikes, NIP, Feb., 96

**PRIME COMPUTER INC.**

Prime Readyng Low-End 50 System, LA,  
Jan., 21  
Prime's Loss Is Poduska's Gain, LA,  
Apr., 21  
The Datamation 100, #38, FA, July, 134

**PRINTERS**

Output Alternatives, David Goodstein,  
FA, Feb., 122+  
1403s at Bargain Prices, Tom McCusker,  
NIP, May, 98+  
Agile Extension, LA, July, 49

**PRINTRONIX INC.**

The Datamation 100, #99, FA, July, 182

**PRIVACY**

Confusion Marks EDP Auditing, Edith  
Myers, NIP, Apr., 82+

**PROCESSORS**

Cedar Due Out in the Fall, LA, Sept., 45

**PRODUCTIVITY**

The New Age of Anxiety, Philip H. Dorn,  
FM, Feb., 195  
Probing Productivity, Robert L. Patrick,  
FA, Sept., 207+

**PROGRAMMING**

Group Processes in Programming, Ben  
Schneiderman, FA, Jan., 138+  
The New Tower of Babel, John R. Ehrman,  
FA, Mar., 156+

**PROJECT CONTROL**

Independent Auditing as Project Control,  
Michael G. Walker and Randolph Bracey,  
FA, Mar., 201+

**PROJECT MANAGEMENT**

Six Monsters in Search of a Nightmare,  
Mike Sanderson, FM, Oct., 231+  
Myths That Miss, David M. Farbman, FA,  
Nov., 109+

**PROJECT STAFFING**

Software Manpower Costs: A Model, Bob  
Esterling, FA, Mar., 164+

**PROTECTIONISM**

Brazil Sets Up DP Agency, Andrew Lloyd,  
INTL, Mar., 226XX+

**PTTS**

SWIFT Squares Off Against the PTTs,  
Ralph Emmett, INTL, June, 236-K+  
It's In the Cards, Malcolm Peltu and  
Andrew Lloyd, INTL, June, 236-N+  
BPO, French PTT Fight It Out, LA, Aug.,  
49  
The PTT's Rip-Off Rates, Andrew Lloyd,  
INTL, Sept., 248-42+  
Race May Be to SWIFT, Ralph Emmett, NIP,  
Nov., 62+  
Wired Society Snags, Andrew Lloyd, INTL,  
Dec., 176-45+

**PULSECOM**

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 132

**PUSHMAN ASSOCIATES**

Travel Tran, PPL, Sept., 224+

**QANTEL CORP.**

The Datamation 100, #74, FA, July, 160

#### QUOTRON SYSTEMS INC.

The Datamation 100, #83, FA, July, 168

#### RACAL-MILGO

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 135

#### RACAL-VADIC, INC.

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 135+

#### RAISIG, PAUL J., JR.

New Head at AFIPS, NIP, Aug., 88

#### RAVE (Residual Asset Value Estimation)

RAVE Review, NIP, Aug., 88

#### RAYTHEON

New from Lexitron, LA, June, 18  
The Datamation 100, #36, FA, July, 132

#### RECESSION

Recession Is a Reality, Linda F. Runyan,  
NIP, May, 78+  
America's Loss, Europe's Gain, LA, Aug.,  
14  
Computer Company Cutbacks, Malcolm  
Peltu, INTL, Dec., 176-53+

#### RECOGNITION EQUIPMENT INC.

The Datamation 100, #56, FA, July, 153

#### REDUNDANT SYSTEMS

Hedging Your Bets, Samuel Feldman, FA,  
June, 202+

#### REGULATION

Stirring Datacom Stew, John L. Kirkley,  
ER, Aug., 39  
Where to Draw the Line, Ronald A. Frank,  
NIP, Aug., 69+

#### RESEARCH

Predicting Results with Statistics,  
Richard T. Dué, FA, May, 227+  
Experimentalists: A Dying Breed,  
Merrill Cherlin, FA, Nov., 88+

#### RESEARCH & DEVELOPMENT

R&D Bills on Front Burner, Willie  
Schatz, NIP, Sept., 114+  
Business Ready to Up R&D, Becky Barna,  
FA, SE, 27+

#### RETAIL STORES

Plan Now, Buy Later, Edith Myers, NIP,  
Aug., 64+

#### REYNOLDS & REYNOLDS

The Datamation 100, #51, FA, July, 152

#### RIXON, INC.

The Top 50 Data Communications Industry  
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#### ROBOTRON

Robotron Moves Into Non-Communist  
Markets, Andrew Lloyd, INTL, June,  
236-BB

#### ROBOTS

Robots Rumor, LA, Sept., 13

#### ROCKWELL INTERNATIONAL CORP.

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 125  
AIM to Please, LA, Oct., 47

#### ROSETTA SMALLTALK

Presenting Rosetta Smalltalk, Scott K.  
Warren and Dennis Abbe, FA, May, 144+

#### RYAN-MCFARLAND CORP.

Compiler Company Grows, Edith Myers, NIP,  
June, 101+

#### SANDERS ASSOCIATES

CalComp Concedes, NIP, May, 112

#### SANDERS, ROYDEN C., JR.

Uphill Fight for Sanders, Ronald A. Frank,  
NIP, Sept., 52+

#### SANDERS TECHNOLOGY

Uphill Fight for Sanders, Ronald A. Frank,  
NIP, Sept., 52+

#### SATELLITE BUSINESS SYSTEMS

SBS Gets Go-Ahead, NIP, Apr., 88  
SBS, AMI Ready for EM, NIP, July, 64  
How SBS Service Stacks Up, Ronald A.  
Frank, NIP, Oct., 54+  
Of Birds and Boob Tubes, LA, Nov., 13

#### SATELLITES

One More Comsat, NIP, May, 112  
AT&T Plans Satellites, NIP, June, 106  
Slow Store in the Sky, LA, July, 49

**SCHINELLER, RICHARD J.**

Man on the Run, Florence Lazar, PPL,  
Nov., 168

**SECURITY**

Swedes Consider Computer Licenses, LA,  
Mar., 65  
Keep Testing to Achieve Security,  
Michael A. Pearson, FM, Dec., 203

**SEMICONDUCTORS**

The Semiconductor Industry: An Overview,  
Michael B. French, FA, Apr., 164+  
Rumors and Raw Random Data, LA, June,  
63  
West Coming East? NIP, June, 106  
NCR to Make More Chips, NIP, Sept., 128  
Millions for INMOS, NIP, Sept., 128  
That's Logic, LA, Nov., 14  
Does "H" Stand for Hot? LA, Nov., 43  
Buying Into \$100 Billion, Edward K.  
Yasaki, FA, SE, 10+

**SERIES/1**

Big Series/1 Order Stirs Speculation,  
LA, Jan., 21

**SERVICE BUREAUS**

Two Years and \$10M Later, Edith Myers,  
NIP, Feb., 83+  
IBM to Reenter Services Biz, LA, May,  
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**SERVICES**

DESA: A Single Source, Josh Martin,  
NIP, Jan., 92  
Bucking the System, Becky Barna, NIP,  
July, 50+  
Immersed in Info Services, Edith Myers,  
NIP, July, 61+  
Software & Services, Edith Myers, FA,  
SE, 18+

**THE 70's**

The Incredible Shrinking Decade, Fred  
Gruenberger, FM, Jan., 181+

**SHARE**

SHARE to Celebrate 25th Year During  
NCC, Mort Bernstein, FA, May, 126

**SHARED MEDICAL SYSTEMS CORP.**

The Datamation 100, #60, FA, July, 154

**SHARP CORP.**

Being Sharper than Sharp, LA, June, 17

**SHUGART ASSOCIATES**

Six MB on Every Desk? Edward K. Yasaki,  
NIP, May, 90+  
A Home for a Floppy Disk, Deborah Sojka,  
NIP, Oct., 88

**SICOB**

Sicob's European Effort, Andrew Lloyd,  
INTL, Dec., 176-50+

**SIEMENS**

Snatch Aimed at SNA, Fred Lamond, INTL,  
Mar., 226TT+  
Getting the Competitive Edge, Fred  
Lamond, INTL, Mar., 226VV  
Siemens Maps Out U.S. Strategy, LA, Aug.,  
14  
Xten Looking for Help? LA, Sept., 14  
Current Trends in the European Computer  
Market, Frank Halpern, FA, Sept., 157+  
The Last of the Dinosaurs? LA, Nov., 13  
Update (Brussels), INTL, Dec., 176-43  
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**SILICON VALLEY**

West Coming Fast? NIP, June, 106

**SIMONS OFFICE SYSTEMS**

A Touch of Class, LA, Aug., 49

**SMALL COMPUTERS**

Small Systems Thrive, Edith Myers, FA,  
SE, 19+

**SMITHSONIAN INSTITUTE**

A Home for a Floppy Disk, Deborah Sojka,  
NIP, Oct., 88

**SOAP (Society of Old Abused Programmers)**

Rumors and Raw Random Data, LA, May, 61

**SOCHER, IVAN**

No Clean Desks, PPL, Sept., 224

**SOFTECH MICROSYSTEMS**

Pascal Confusion Explained, Edith Myers,  
NIP, May, 98

**SOFTWARE**

A Green Light for ADR, Vin McLellan,  
NIP, Jan., 68+



From Tokyo to Taiwan, Edward K. Yasaki, FA, Feb., 56  
 Other Countries Cooperate, Edward K. Yasaki, FA, Feb., 56+  
 Designing Translator Software, Paul Heckel, FA, Feb., 134+  
 Univac's UNIX Is Looking Good, LA, Mar., 21  
 French Eye U.S. Software Market, LA, Mar., 65  
 Software Slump in Sight? Edith Myers, NIP, May, 93+  
 American Software Dream, Malcolm Peltu, NIP, May, 94+  
 Compiler Company Grows, Edith Myers, NIP, June, 101+  
 Informatics into Mini Software, NIP, June, 106  
 Stratus Struts Its Stuff, Vin McLellan, NIP, Aug., 65+  
 Of Birds, IBM and Software, Edith Myers, NIP, Sept., 88+  
 Let Slip the Dogs of War, FM, Oct., 240+  
 Software & Services, Edith Myers, FA, SE, 18+

#### SOFTWARE AG

Rumors and Raw Random Data, LA, Oct., 47  
 Database Machine Flap, Ralph Emmett, NIP, Dec., 48+

#### SOFTWARE PACKAGES

Packages on the Upswing, Edward K. Yasaki, FA, Feb., 52  
 MITI Adds Muscle to the Cause, Edward K. Yasaki, FA, Feb., 52+  
 Unbundle: The "In" Thing, Edward K. Yasaki, FA, Feb., 54  
 Japan SIA Analyzes Revenues, Edward K. Yasaki, FA, Feb., 58  
 Export Market Also Eyed, Edward K. Yasaki, FA, Feb., 58  
 A Golden Age, John L. Kirkley, ER, Dec., 31  
 Evaluating Off-the-Shelf Programs, FA, Dec., 84+  
 The Origins of Software, Larry Welke, FA, Dec., 127+  
 The Golden Age of Packaged Software, Frederic G. Withington, FA, Dec., 131+  
 Picking and Perfecting the Packages, R. Thomas Bigelow, Allan E. Elstien,

William Werben and Larry D. Woods, FA, Dec., 139+  
 Japan Rediscovered DBMS, Katsuhiko Morita and Takashi Ishizuka (Computopia: March 1980, Computer Age Co., Ltd., Japan), FA, Dec., 155+

#### SORBUS, INC.

Sand in His Shoes, PPL, June, 228

#### SOURCE DATA PROCESSING

Source Data Processing, W. Harry Vickers, FA, Apr., 156+

#### SOUTH CENTRAL BELL

Spreading Nets, Charles E. Price, FA, Nov., 120+

#### SOUTHERN PACIFIC COMMUNICATIONS CO.

One More Comsat, NIP, May, 112

#### SOVIET UNION

CDC Pact with USSR in Doubt, Peter Krass, NIP, Mar., 112  
 Cold War Freezes DP Exports, NIP, Mar., 114  
 Soviet Sales Scene, LA INTL, Mar., 226SS

#### SPANGLE, CLARENCE W.

People, Deborah Sojka and Don Rosenthal, FA, SE, 67+

#### SP COMMUNICATIONS CO.

SPC Seeks Non-AT&T Markets, Ronald A. Frank, NIP, Apr., 83+

#### SPERRY RAND CORPORATION

The Datamation 100, #5, FA, July, 106

#### SPERRY UNIVAC

While IBM Competitors' Earnings Rise, NIP, Mar., 114  
 The Top 50 Data Communications Industry Manufacturers, FA, June, 128  
 Current Trends in the European Computer Market, Frank Halpern, FA, Sept., 157+  
 Univac Supports X.21, X.25, Deborah Sojka, NIP, Dec., 80

#### SPL INTERNATIONAL

ICL - SPL's Latest Suitor, LA INTL, Mar., 226SS



#### SPUR PRODUCTS CORP.

1403s at Bargain Prices, Tom McCusker,  
NIP, May, 98+

#### STANDARDS

WP Standard in the Works, LA, Jan., 21+  
IBM Takes Stand on Standards, NIP, Feb.,  
76+  
I/O Standards Suits Scrapped, NIP, Mar.,  
114  
It's Not Over Yet, NIP, Aug., 88  
Appraising X3J4 COBOL, W.F. Lipman, FM,  
Sept., 261+  
Tracking the Elusive KOPS, Edward J.  
Lias, FA, Nov., 99+

#### STATISTICS

Predicting Results with Statistics,  
Richard T. Dué, FA, May, 227+

#### ST GOBAIN-PONT-A-MOUSSON

St. Gobain Makes Its DP Debut, Andrew  
Lloyd, INTL, Mar., 226QQ+  
Forging a New Alliance, Vin McLellan,  
NIP, June, 64+

#### STORAGE TECHNOLOGY CORP.

Stordahl in the Making? Edward K.  
Yasaki, NIP, May, 62+  
Rumors and Raw Random Data, LA, July,  
49  
The Datamation 100, #11, FA, July, 110  
No Go for "Stordahl," NIP, Aug., 88  
Rumors and Raw Random Data, LA, Oct.,  
47  
Another Acquisition, Deborah Sojka,  
NIP, Oct., 88  
Goings-On at STC, Deborah Sojka, NIP,  
Dec., 80

#### STRATUS COMPUTER INC.

Stratus Struts Its Stuff, Vin McLellan,  
NIP, Aug., 65+

#### STRAUCH, CHARLES S.

People, Deborah Sojka and Don Rosenthal,  
FA, SE, 67+

#### THE SUN COMPANY, INC.

The Datamation 100, #71, FA, July, 158

#### SUPERCOMPUTERS

Preparing for the H Bomb, LA, Apr., 22  
NASA Pursues Supercomputer, LA, Aug.,

13

Livermore Loves Cray, NIP, Aug., 88

#### SURVEYS

Budgeting in 1980, Louise C. Shaw, FA,  
Jan., 126+  
1980 Salary Survey, Louise C. Shaw, FA,  
Apr., 110+  
Mainframe Industry Survey, Willie Schatz,  
FA, June, 46+  
Problems with DP Schools, Josh Martin,  
NIP, June, 66+  
Alive and Well: The Top 50 Data Communi-  
cations Industry Manufacturers, Ronald  
A. Frank, FA, June, 112+  
Surveying the Software, Richard Bourke,  
FA, Oct., 101+  
Annual Minicomputer Survey, FA, Nov.,  
144+  
Evaluating Off-the-Shelf Programs, FA,  
Dec., 84+  
Business Ready to Up R&D, Becky Barna,  
FA, SE, 27+

#### SWEDEN

Swedes Consider Computer Licenses, LA,  
Mar., 65  
Datsaab Up for Grabs, Ralph Emmett,  
NIP, Mar., 106+  
Sweden Fears DP Reliance, Andrew Lloyd,  
NIP, Apr., 76+

#### SWIFT

SWIFT Squares Off Against the PTTs,  
Ralph Emmett, INTL, June, 236-K+  
Race May Be to SWIFT, Ralph Emmett, NIP,  
Nov., 62+

#### SYMMETRICAL MULTIPROCESSING

More Power to You, Allan B. Wilson, FA,  
June, 216+

#### SYNTEX, INC.

Syntrex Stole the Show, Ronald A. Frank,  
NIP, Aug., 76+  
Olivetti to Market Syntrex, Deborah  
Sojka, NIP, Dec., 80

#### SYSTEM DEVELOPMENT CORP.

The Datamation 100, #35, FA, July, 132  
Burroughs Wants SDC, Deborah Sojka, NIP,  
Oct., 88

#### SYSTEMS ANALYSIS

Systems Analysis: Key to the Future,  
Dwight F. Townsend, FA, Oct., 145+

#### SYSTEMS CONSULTANTS, INC.

Speaking of Chip Shortages, Edith  
Myers, NIP, Jan., 81+

#### SYSTEMS DESIGN

A Checklist for System Design, Robert  
L. Patrick, FA, Jan., 147+  
Who Believes in Top-Down Design, Robert  
L. Glass, FM, May, 293  
The Architects of System Design,  
Dionysios Tsichritzis, FA, Sept.,  
201+

#### SYSTEMS ENGINEERING LABORATORIES, INC.

The Datamation 100, #64, FA, July, 154+

#### SYSTEMS NETWORK ARCHITECTURE

Doll on the Evolution of SNA, Ron Frank,  
FA, Mar., 135+  
Snatch Aimed at SNA, Fred Lamond, INTL,  
Mar., 226TT+

#### TAIWAN

From Tokyo to Taiwan, Edward K. Yasaki,  
FA, Feb., 56

#### TANDEM COMPUTERS INC.

The Datamation 100, #69, FA, July, 158  
Current Trends in the European Computer  
Market, Frank Halpern, FA, Sept., 157+

#### TANDY CORP.

The Datamation 100, #39, FA, July, 136  
Tandy Has New Focus, Ralph Emmett, NIP,  
Dec., 60+

#### TAPE DRIVES

CDC Pulls All Stops, LA, Aug., 13+

#### T-BAR INC.

The Top 50 Data Communications Industry  
Manufacturers, FA, June, 140

#### TECHNOLOGY

Ferrite's Out, Thin Film's In, Edward  
K. Yasaki, NIP, Feb., 67+  
Output Alternatives, David Goodstein,  
FA, Feb., 122+  
The Disk Revolution, Sarah Rolph, FA,  
Feb., 147+

Six MB on Every Desk? Edward K. Yasaki,  
NIP, May, 90+

Glimpses of America, Fei Xiaotong, FA,  
May, 234+

Only Nonhuman, Ben Schneiderman, FM,  
May, 293+

Power in a Pinch, Edward K. Yasaki, NIP,  
Sept., 96+

Database Machine Flap, Ralph Emmett,  
NIP, Dec., 48+

Business Ready to Up R&D, Becky Barna,  
FA, SE, 27+

Relating to Data Bases, Bill Musgrave,  
FA, SE, 30+

Telecom Changes Coming, Ronald A. Frank,  
FA, SE, 36+

Coaxing on Co-Ax, Bill Musgrave, FA, SE,  
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#### TEK-COM INC.

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For the Courts to Decide, Becky Barna,  
NIP, Mar., 88

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Fiber Optic Net from AT&T, NIP, Mar.,  
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BPO, French PTT Fight It Out, LA, Aug.,  
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Telidon Test Set for D.C., Beverley J.  
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Loosening the Telecom Link, Oswald H.  
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Telecom Unhooks the U.K., Malcolm Peltu,  
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NTSC Getting in Shape, Ronald A. Frank,  
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IBM by Another Name..., Ronald A. Frank,  
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AT&T's Telpak Woes, Deborah Sojka, NIP,  
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Wired Society Snags, Andrew Lloyd, INTL,  
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#### TELENET

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#### TELEPROCESSING PRODUCTS

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#### TELEX CORP.

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#### TELIDON

Telidon Test Set for D.C., Beverley J.  
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Snatch Aimed at SNA, Fred Lamond, INTL,  
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Getting the Competitive Edge, Fred  
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Why Touch Sensing? Louise C. Shaw, FA,  
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#### TERMINOLOGY

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#### TERRORISM

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#### TOPAZ, INC.

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#### TOUCH SENSING

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START Net Sparks Airline Industry  
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**TRAVICOM**

Travicom Tussle Begins, Fred Lamond,  
NIP, Mar., 110+

**TRENDS**

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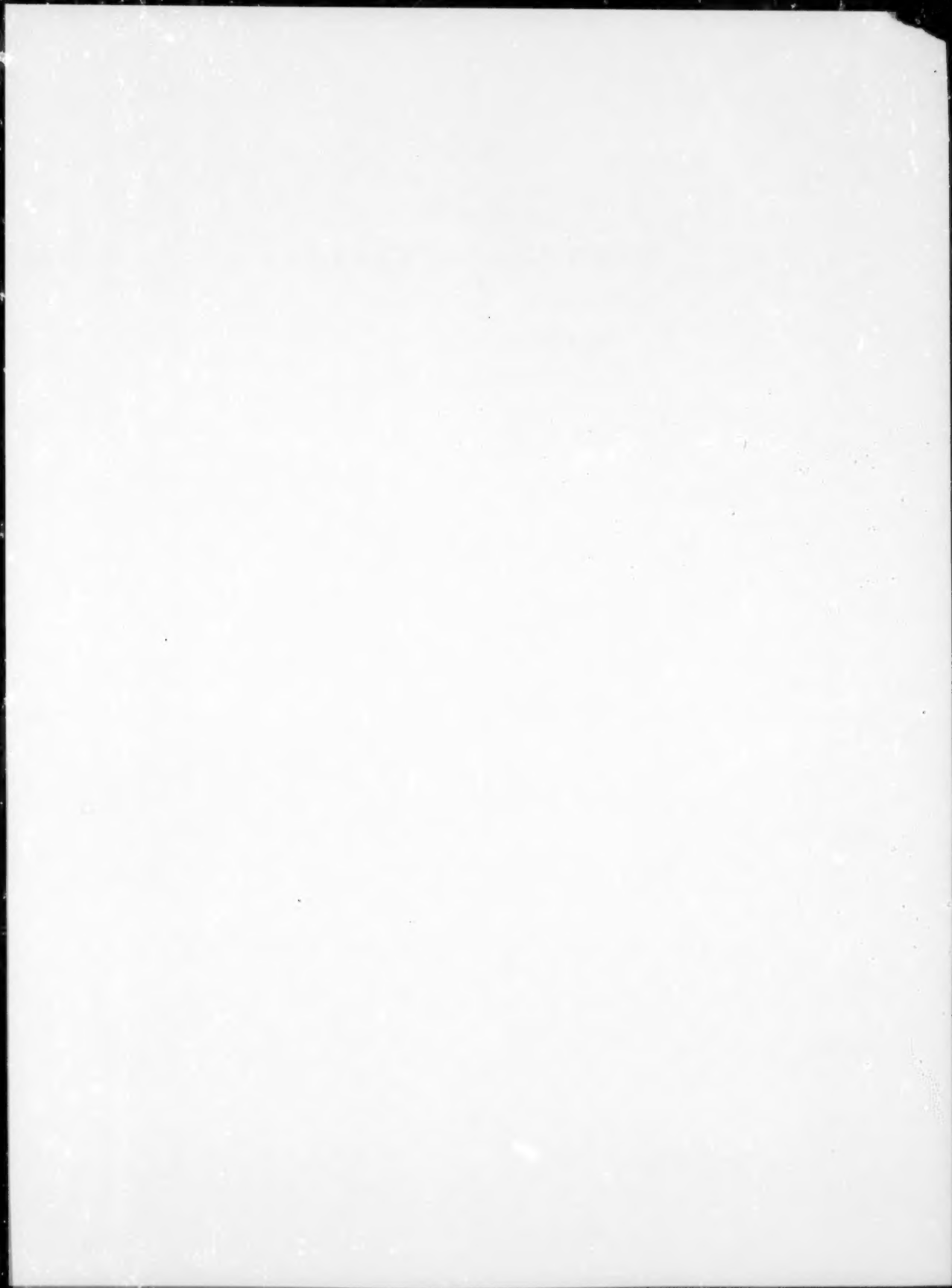
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